

PA-SCORE

PA SCORE SHEETS

Site Name: CAT SWAMP HILL DUMP SITE
CERCLIS ID No.:
Street Address: WEST OF ROUTE 206
City/State/Zip: BYRAM TOWNSHIP, NJ 07874

Investigator: DAVID DIBBLEE
Agency/Organization: NJDEPE, SITE ASSESSMENT
Street Address: 300 HORIZON CENTER
City/State: ROBBINSVILLE, NJ

Date: 3/31/94

164791



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OMB Approval Number: 2050-0095
Approved for Use Through: 4/95

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: NJ	CERCLIS Number:
	CERCLIS Discovery Date: 2/94	

1. General Site Information

Name: CAT SWAMP HILL DUMP SITE		Street Address: WEST OF ROUTE 206			
City: BYRAM TOWNSHIP	State: NJ	Zip Code: 07874	County: SUSSEX	Co. Code: 19	Cong. Dist: 04
Latitude: 40° 55' 23.0"	Longitude: 74° 43' 52.0"	Approx. Area of Site: 10 acres		Status of Site: Inactive	

2. Owner/Operator Information

Owner: HARRY WAINBERG (BLOCK 366, LOT 10)			Operator: NJDEPE (BLOCK 366, LOT 3)		
Street Address: 4645 BOULEVARD DEF GRANDES PR			Street Address: LABOR AND INDUSTRY BUILDING		
City: ST LEONARD, QUEBEC, CANADA			City: TRENTON		
State:	Zip Code: HIR185	Telephone:	State: NJ	Zip Code:	Telephone:
Type of Ownership: Private			How Initially Identified: State/Local Program		

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
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5. General Site Characteristics

Predominant Land Uses Within 1 Mile of Site: Residential Forest/Fields	Site Setting: Suburban	Years of Operation: Beginning Year: 1952 Ending Year: 1972 X Unknown
Type of Site Operations: Other: LANDFILL		Waste Generated: Offsite
		Waste Deposition Authorized By: Former Owner
		Waste Accessible to the Public Yes
		Distance to Nearest Dwelling, School, or Workplace: 1200 Feet

6. Waste Characteristics Information

Source Type Landfill Landfill Landfill Landfill	Quantity 8.00e+02 sq ft 9.00e+02 sq ft 6.00e+03 sq ft 1.00e+00 acres	Tier A A A A	General Types of Waste: Other: UNKNOWNNS
Tier Legend C = Constituent W = Wastestream V = Volume A = Area			Physical State of Waste as Deposited Solid Liquid

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: NJ	CERCLIS Number:
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8. Surface Water Pathway

Part 1 of 4

Type of Surface Water Draining Site and 15 Miles Downstream: Other: WETLAND	Shortest Overland Distance From Any Source to Surface Water: 2500 Feet 0.5 Miles
Is there a Suspected Release to Surface Water: No	Site is Located in: > 500 yr floodplain

8. Surface Water Pathway

Part 2 of 4

Drinking Water Intakes Along the Surface Water Migration Path: No
Have Primary Target Drinking Water Intakes Been Identified: No
Secondary Target Drinking Water Intakes: None

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: NJ	CERCLIS Number:
	CERCLIS Discovery Date: 2/94	

9. Soil Exposure Pathway

Are People Occupying Residences or
Attending School or Daycare on or
Within 200 Feet of Areas of Known
or Suspected Contamination: No

Number of Workers Onsite: None

Have Terrestrial Sensitive Environments Been Identified on or Within
200 Feet of Areas of Known or Suspected Contamination: No

10. Air Pathway

Total Population on or Within:	
Onsite	0
0 - 1/4 Mile	3
>1/4 - 1/2 Mile	10
>1/2 - 1 Mile	9180
>1 - 2 Miles	13015
>2 - 3 Miles	8210
>3 - 4 Miles	13955
Total	44373

Is There a Suspected Release to Air: No

Wetlands Located
Within 4 Miles of the Site: No

Other Sensitive Environments Located
Within 4 Miles of the Site: No

Sensitive Environments Within 1/2 Mile of the Site:
None

WASTE CHARACTERISTICS

Waste Characteristics (WC) Calculations:

1 TRENCH AREA #1	Landfill	WQ value	maximum
Area	8.00E+02 sq ft	2.35E-01	2.35E-01
2 TRENCH AREA #2	Landfill	WQ value	maximum
Area	9.00E+02 sq ft	2.65E-01	2.65E-01
3 TRENCH AREA #3	Landfill	WQ value	maximum
Area	6.00E+03 sq ft	1.76E+00	1.76E+00
4 SOLID WASTE AREAS	Landfill	WQ value	maximum
Area	1.00E+00 acres	1.28E+01	1.28E+01

WQ total 1.51E+01

** Only First WC Page Is Printed **

Waste Characteristics Score: WC = 18

Ground Water Pathway Criteria List
Suspected Release

Are sources poorly contained? (y/n/u)	Y
Is the source a type likely to contribute to ground water contamination (e.g., wet lagoon)? (y/n/u)	Y
Is waste quantity particularly large? (y/n/u)	U
Is precipitation heavy? (y/n/u)	Y
Is the infiltration rate high? (y/n/u)	U
Is the site located in an area of karst terrain? (y/n)	Y
Is the subsurface highly permeable or conductive? (y/n/u)	N
Is drinking water drawn from a shallow aquifer? (y/n/u)	N
Are suspected contaminants highly mobile in ground water? (y/n/u)	U
Does analytical or circumstantial evidence suggest ground water contamination? (y/n/u)	U

Other criteria? (y/n) N

SUSPECTED RELEASE? (y/n) Y

Summarize the rationale for Suspected Release:

NUMEROUS ALLEGATIONS BY LOCAL RESIDENTS INDICATE THE POSSIBILITY OF MANY DRUMS AND TANK TRUCKS WHICH WERE DUMPED AT THE SITE. THIS IS SUPPORTED BY THE NUMEROUS DRUM CARCASSES FOUND AT THE SITE.

Ground Water Pathway Criteria List
Primary Targets

Is any drinking water well nearby? (y/n/u)	Y
Has any nearby drinking water well been closed? (y/n/u)	U
Has any nearby drinking water well user reported foul-testing or foul-smelling water? (y/n/u)	U
Does any nearby well have a large drawdown/high production rate? (y/n/u)	N
Is any drinking water well located between the site and other wells that are suspected to be exposed to a hazardous substance? (y/n/u)	N
Does analytical or circumstantial evidence suggest contamination at a drinking water well? (y/n/u)	U
Does any drinking water well warrant sampling? (y/n/u)	Y
Other criteria? (y/n)	N

PRIMARY TARGET(S) IDENTIFIED? (y/n) Y

Summarize the rationale for Primary Targets:

PRIVATE POTABLE WELLS EXIST DOWNGRAIENT TO THE SITE.

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GROUND WATER PATHWAY SCORESHEETS

Pathway Characteristics

Pathway Characteristics			Ref.
Do you suspect a release? (y/n)	Yes		
Is the site located in karst terrain? (y/n)	Yes		
Depth to aquifer (feet):	100		
Distance to the nearest drinking water well (feet):	1200		
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	550		
2. NO SUSPECTED RELEASE		0	
LR =		550 0	

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 29 person(s)	290		
4. SECONDARY TARGET POPULATION Are any wells part of a blended system? (y/n) Y	1230	0	
5. NEAREST WELL	50	0	
6. WELLHEAD PROTECTION AREA None within 4 Miles	0	0	
7. RESOURCES	5	0	
T =		1575	0

WASTE CHARACTERISTICS

WC =

32	0
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GROUND WATER PATHWAY SCORE:

100

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Ground Water Target Populations

Primary Target Population Drinking Water Well ID	Dist. (miles)	Population Served	Reference	Value
1 BLOCK 70, LOT 9	0.47	20		200
2 BLOCK 226, LOT 10	0.47	3		30
3 BLOCK 366, LOT 12	0.22	3		30
4 BLOCK 366, LOT 13	0.22	3		30
None				
*** Note : Maximum of 5 Wells Are Printed ***				
Total				290

Secondary Target Population Distance Categories	Population Served	Reference	Value
0 to 1/4 mile	0		0
Greater than 1/4 to 1/2 mile	1060		101
Greater than 1/2 to 1 mile	400		26
Greater than 1 to 2 miles	5615		261
Greater than 2 to 3 miles	1000		26
Greater than 3 to 4 miles	19300		816
Total			1230

Apportionment Documentation for a Blended System

BROOKWOOD-MUSCONETCONG	3 WELLS	-	352 PEOPLE/WELL
COLBY	1 WELL	-	85 PEOPLE
FOREST LAKES	2 WELLS	-	3070 PEOPLE/WELL
NORTH SHORE	2 WELLS	-	50 PEOPLE/WELL
STRAWBERRY POINT	1 WELL	-	110 PEOPLE
WILLOR MANOR	1 WELL	-	55 PEOPLE
BOROUGH OF STANHOPE	4 WELLS	-	1250 PEOPLE/WELL
HOPATCONG BOROUGH	8 WELLS	-	655 PEOPLE/WELL
ROXBURY TOWNSHIP	4 WELLS	-	1579 PEOPLE/WELL
MOUNT OLIVE TOWNSHIP	10 WELLS	-	370 PEOPLE/WELL
EAST BROOKWOOD ESTATES	3 WELLS	-	204 PEOPLE/WELL

Surface Water Pathway Criteria List
Suspected Release

Is surface water nearby? (y/n/u)	N
Is waste quantity particularly large? (y/n/u)	U
Is the drainage area large? (y/n/u)	N
Is rainfall heavy? (y/n/u)	Y
Is the infiltration rate low? (y/n/u)	N
Are sources poorly contained or prone to runoff or flooding? (y/n/u)	N
Is a runoff route well defined(e.g.ditch/channel to surf.water)? (y/n/u)	N
Is vegetation stressed along the probable runoff path? (y/n/u)	N
Are sediments or water unnaturally discolored? (y/n/u)	N
Is wildlife unnaturally absent? (y/n/u)	N
Has deposition of waste into surface water been observed? (y/n/u)	N
Is ground water discharge to surface water likely? (y/n/u)	N
Does analytical/circumstantial evidence suggest S.W. contam? (y/n/u)	N

Other criteria? (y/n) N

SUSPECTED RELEASE? (y/n) N

Summarize the rationale for Suspected Release:

Surface Water Pathway Criteria List
Primary Targets

Is any target nearby? (y/n/u) If yes: Y
N Drinking water intake
N Fishery
Y Sensitive environment

Has any intake, fishery, or recreational area been closed? (y/n/u) N

Does analytical or circumstantial evidence suggest surface water
contamination at or downstream of a target? (y/n/u) N

Does any target warrant sampling? (y/n/u) If yes: N
N Drinking water intake
N Fishery
U Sensitive environment

Other criteria? (y/n) N

PRIMARY INTAKE(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Intakes:

continued -----

continued -----

Other criteria? (y/n)

N

PRIMARY FISHERY(IES) IDENTIFIED? (y/n)

N

Summarize the rationale for Primary Fisheries:

Other criteria? (y/n)

N

PRIMARY SENSITIVE ENVIRONMENT(S) IDENTIFIED? (y/n)

N

Summarize the rationale for Primary Sensitive Environments:

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SURFACE WATER PATHWAY SCORESHEETS

Pathway Characteristics

		Ref.
Do you suspect a release? (y/n)	No	
Distance to surface water (feet):	2500	
Flood frequency (years):	>500	
What is the downstream distance (miles) to:		
a. the nearest drinking water intake?	N.A.	
b. the nearest fishery?	N.A.	
c. the nearest sensitive environment?	0.0	

LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	0		
2. NO SUSPECTED RELEASE		500	
LR =	0	500	

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Drinking Water Threat Targets

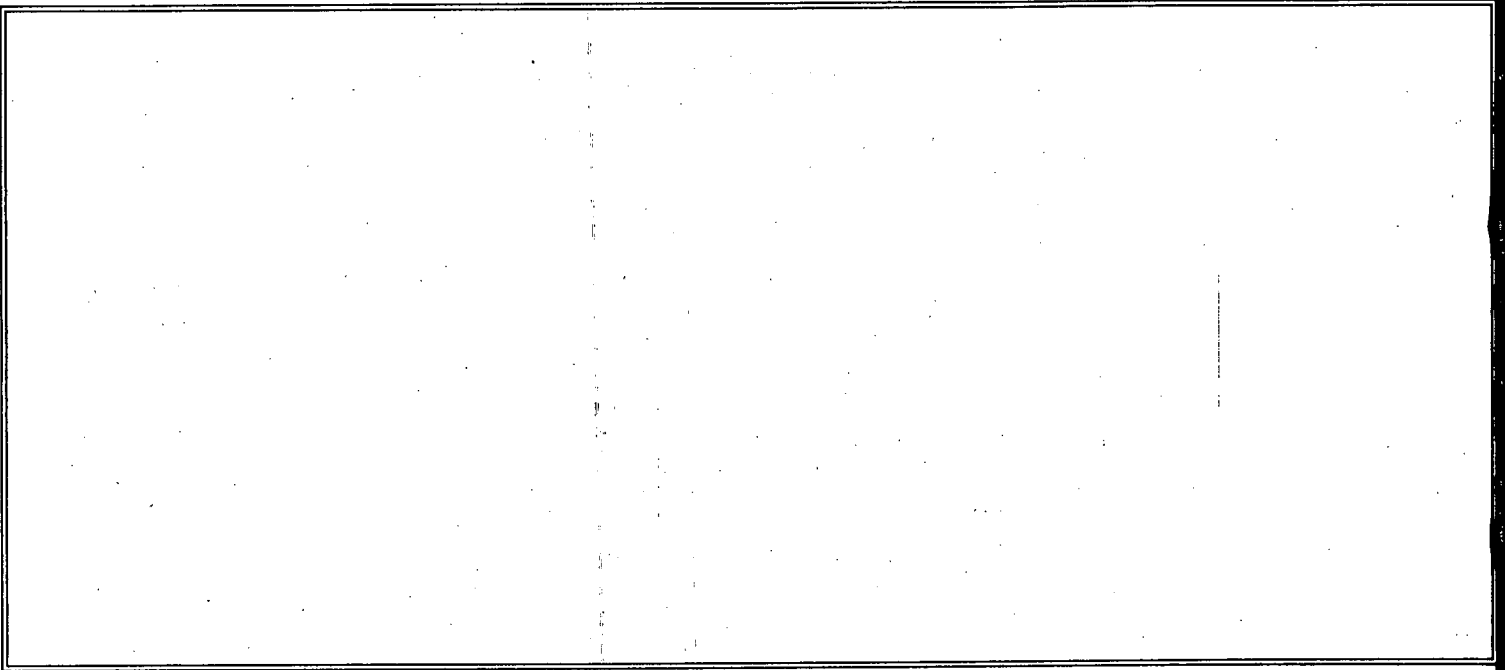
TARGETS	Suspected Release	No Suspected Release	References
3. Determine the water body type, flow (if applicable), and number of people served by each drinking water intake.			
4. PRIMARY TARGET POPULATION 0 person(s)	0		
5. SECONDARY TARGET POPULATION Are any intakes part of a blended system? (y/n): N	0	0	
6. NEAREST INTAKE	0	0	
7. RESOURCES	0	5	
T =	0	5	

Drinking Water Threat Target Populations

Intake Name	Primary (y/n)	Water Body Type/Flow	Population Served	Ref.	Value
None					
Total Primary Target Population Value					0
Total Secondary Target Population Value					0

*** Note : Maximum of 6 Intakes Are Printed ***

Apportionment Documentation for a Blended System



Human Food Chain Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
8. Determine the water body type and flow for each fishery within the target limit.			
9. PRIMARY FISHERIES	0		
10. SECONDARY FISHERIES	0	0	
T =	0	0	

Human Food Chain Threat Targets

Fishery Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
None				
Total Primary Fisheries Value				0
Total Secondary Fisheries Value				0

*** Note : Maximum of 6 Fisheries Are Printed ***

Environmental Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
11. Determine the water body type and flow (if applicable) for each sensitive environment.			
12. PRIMARY SENSITIVE ENVIRONMENTS	0		
13. SECONDARY SENSITIVE ENVIRONS.	0	25	
T =	0	25	

Environmental Threat Targets

Sensitive Environment Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 PALUSTRINE WETLANDS	N	<10 cfs		25
None				
Total Primary Sensitive Environments Value				0
Total Secondary Sensitive Environments Value				0
*** Note: Maximum of 6 Sensitive Environments Are Printed ***				

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Surface Water Pathway Threat Scores

Threat	Likelihood of Release(LR) Score	Targets(T) Score	Pathway Waste Characteristics (WC) Score	Threat Score LR x T x WC / 82,500
Drinking Water	500	5	18	1
Human Food Chain	500	0	18	0
Environmental	500	25	18	3

SURFACE WATER PATHWAY SCORE:

3

Soil Exposure Pathway Criteria List
Resident Population

Is any residence, school, or daycare facility on or within 200 feet of an area of suspected contamination? (y/n/u)	N
Is any residence, school, or daycare facility located on adjacent land previously owned or leased by the site owner/operator? (y/n/u)	N
Is there a migration route that might spread hazardous substances near residences, schools, or daycare facilities? (y/n/u)	N
Have onsite or adjacent residents or students reported adverse health effects, exclusive of apparent drinking water or air contamination problems? (y/n/u)	N
Does any neighboring property warrant sampling? (y/n/u)	N

Other criteria? (y/n) N

RESIDENT POPULATION IDENTIFIED? (y/n) N

Summarize the rationale for Resident Population:

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SOIL EXPOSURE PATHWAY SCORESHEETS

Pathway Characteristics

		Ref.
Do any people live on or within 200 ft of areas of suspected contamination? (y/n)	No	
Do any people attend school or daycare on or within 200 ft of areas of suspected contamination? (y/n)	No	
Is the facility active? (y/n):	No	

LIKELIHOOD OF EXPOSURE	Suspected Contamination	References
1. SUSPECTED CONTAMINATION LE =	550	

Targets

2. RESIDENT POPULATION 0 resident(s) 0 school/daycare student(s)	0	
3. RESIDENT INDIVIDUAL	0	
4. WORKERS None	0	
5. TERRES. SENSITIVE ENVIRONMENTS	0	
6. RESOURCES	5	
T =	5	

WASTE CHARACTERISTICS

WC =

18

RESIDENT POPULATION THREAT SCORE:

1

NEARBY POPULATION THREAT SCORE:

1

Population Within 1 Mile: 1 - 10,000

SOIL EXPOSURE PATHWAY SCORE:

2

Soil Exposure Pathway Terrestrial Sensitive Environments

Terrestrial Sensitive Environment Name	Reference	Value
None		

Total Terrestrial Sensitive Environments Value

*** Note : Maximum of 7 Sensitive Environments Are Printed ***

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Air Pathway Criteria List
Suspected Release

Are odors currently reported? (y/n/u) N

Has release of a hazardous substance to the air
been directly observed? (y/n/u) N

Are there reports of adverse health effects (e.g., headaches,
nausea, dizziness) potentially resulting from migration
of hazardous substances through the air? (y/n/u) N

Does analytical/circumstantial evidence suggest release to air? (y/n/u) N

Other criteria? (y/n) N

SUSPECTED RELEASE? (y/n) N

Summarize the rationale for Suspected Release:

AIR PATHWAY SCORESHEETS

Pathway Characteristics

Do you suspect a release? (y/n)			No	Ref.
Distance to the nearest individual (feet):			1200	
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References	
1. SUSPECTED RELEASE	0			
2. NO SUSPECTED RELEASE		500		
LR =		0		

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 0 person(s)	0		
4. SECONDARY TARGET POPULATION	0	20	
5. NEAREST INDIVIDUAL	0	20	
6. PRIMARY SENSITIVE ENVIRONS.	0		
7. SECONDARY SENSITIVE ENVIRONS.	0	0	
8. RESOURCES	0	5	
T =		0	45

WASTE CHARACTERISTICS

WC =

0	18
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AIR PATHWAY SCORE:

5

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Air Pathway Secondary Target Populations

Distance Categories	Population	References	Value
Onsite	0		0
Greater than 0 to 1/4 mile	3		1
Greater than 1/4 to 1/2 mile	10		0
Greater than 1/2 to 1 mile	9180		8
Greater than 1 to 2 miles	13015		8
Greater than 2 to 3 miles	8210		1
Greater than 3 to 4 miles	13955		2
Total Secondary Population Value			20

Air Pathway Primary Sensitive Environments

Sensitive Environment Name	Reference	Value
None		

Total Primary Sensitive Environments Value

*** Note : Maximum of 7 Sensitive Environments Are Printed***

Air Pathway Secondary Sensitive Environments

Sensitive Environment Name	Distance	Reference	Value
None			

Total Secondary Sensitive Environments Value

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SITE SCORE CALCULATION	SCORE
GROUND WATER PATHWAY SCORE:	100
SURFACE WATER PATHWAY SCORE:	3
SOIL EXPOSURE PATHWAY SCORE:	2
AIR PATHWAY SCORE:	5
SITE SCORE:	50